

Ground Squirrel mylfh1clvf acvpcptvqa sk1clgw1wd

1  
HBC AYW mdiidpykefg atve11sflp sdffpsvrdl ldtassalyre  
HBC ADW mdiidpykefg atve11sflp sdffpsvrdl ldtassalyre  
HBC ADW2 mdiidpykefg atve11sflp sdffpsvrdl ldtassalyre  
HBC ADYW mdiidpykefg atve11sflp sdffpsvrdl ldtaaalyrd  
Woodchuck mdiidpykefg ssyq11nf1p ldf1fpd1nl vdtatallyee  
Ground Squirrel mdiidpykefg ssyq11nf1p ldf1fpd1nl vdtaaalyee

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alespehcsp hhtalrqail cwgelm1lat wvgvn1ledpa  
alespehcsp hhtalrqail cwgelm1lat wvgnn1qdpa  
alespehcsp hhtalrqail cwgelm1lat wvgtn1ledpa  
alespehcsp hhtairqaly cwgdlmt1lat wvgtn1ledpa  
eltgrehcsp hhtairqaly cweeltrlit wmsnitseq  
Ground Squirrel eltgrehcsp hhtairqaly cweeltrlit wmsentteev

FIG. 1A

**FIG. 1B**

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HBC	AYW	srdlvvsvvn	tnmglkfrql	lwfhiscltf	gretvleylv
HBC	ADW	srdlvvmyvn	tnmglkirql	lwfhiscltf	gretvleylv
HBC	ADW2	srdlvvmyvn	tnvglkirql	lwfhiscltf	gretvleylv
HBC	ADYW	srdlvvsvvn	tnvglkfrql	lwfhiscltf	gretvleylv
Woodchuck		vrtilvhnvn	dtwgkvrqqs	lwfhiscltf	gqhtvqeflv
Ground Squirrel		rriivdhvn	twglkvrqtl	wfhlscltf	qhtvqeflv

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HBC	AYW	sfgvwirtp	ayrppnapi	stlpettvir	rrgrsprrt
HBC	ADW	sfgvwirtp	ayrppnapi	stlpettvir	rrgrsprir
HBC	ADW2	sfgvwirtp	ayrppnapi	stlpettvir	rrgrgrspr
HBC	ADYW	sfgvwirtp	ayrppnapi	stlpettvir	rrgrsprir
Woodchuck		sfgvwirtpa	pyrppnapi	stlpehtvir	rrgarasrs
Ground Squirrel		fgvwirtpap	yrppnapi	tlpehtvir	rgsraarsp

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HBC	AYW	psprrrrsqs	prrrsqsre	sqc
HBC	ADW	rtpsprrrs	qsprrrrsqs	resqc
HBC	ADW2	rtpsprrrps	qsprrrrsqs	resqc
HBC	ADYW	psprrrrsqs	prrrsqsre	sqc
Woodchuck		prrtpspr	rrsqssprrr	sqc
Ground Squirrel		rrrtpspr	rsqsprrrs	qspasnc

FIG. 2

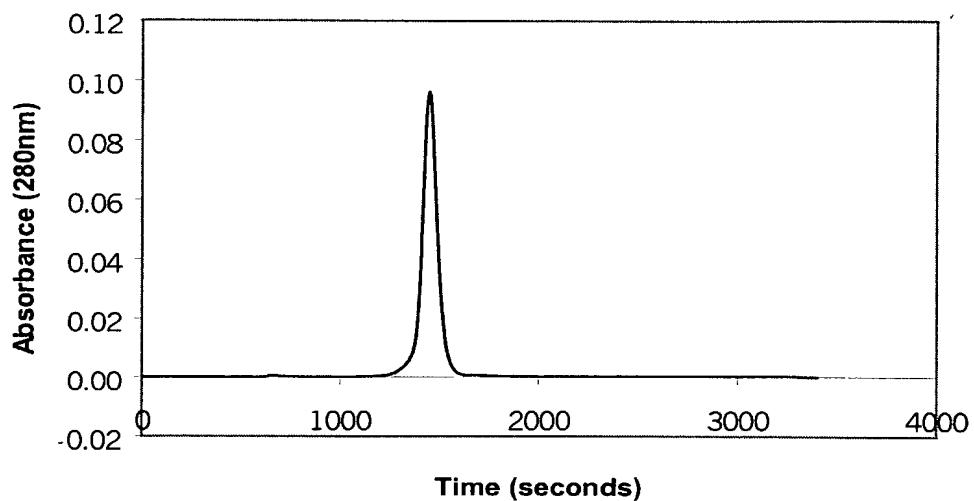
HindIII

pKK223-3  
TTCACACAGGAAACAGAATTCCCGGGATCCGTCACCTGCAGCCAAG  
CTT

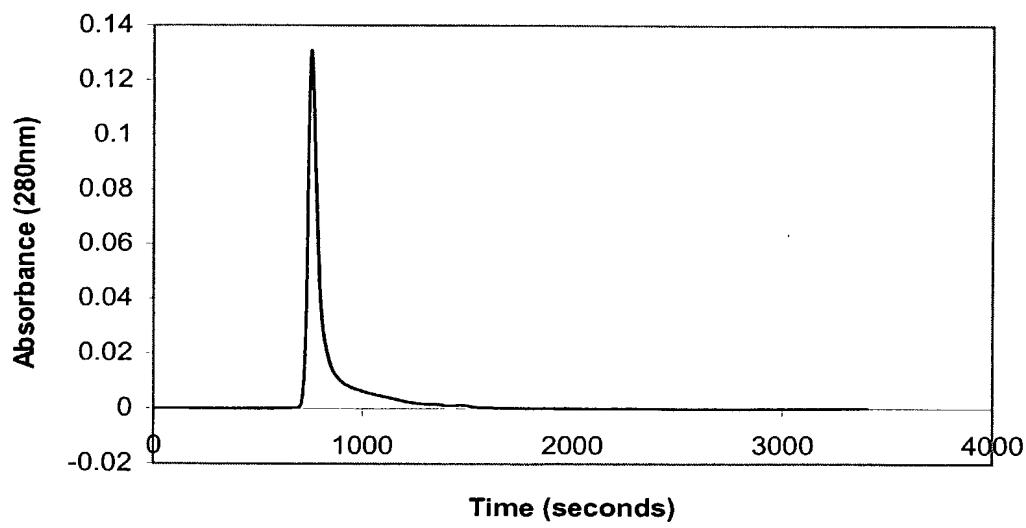
pKK223-3N      TTCACATAAGGAGGAAAAAAAccatggGATCCG--  
-----AAGCTT

NcoI

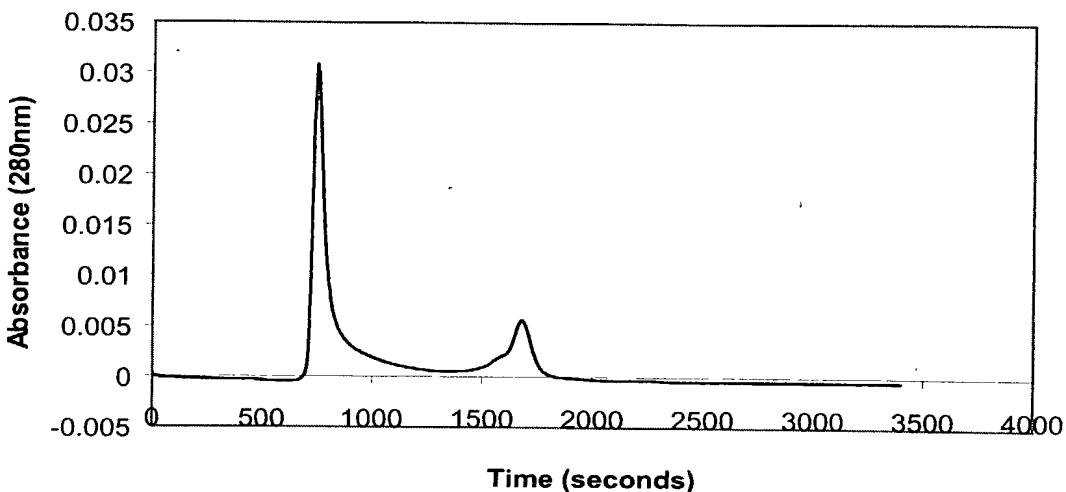
**Fig. 3**



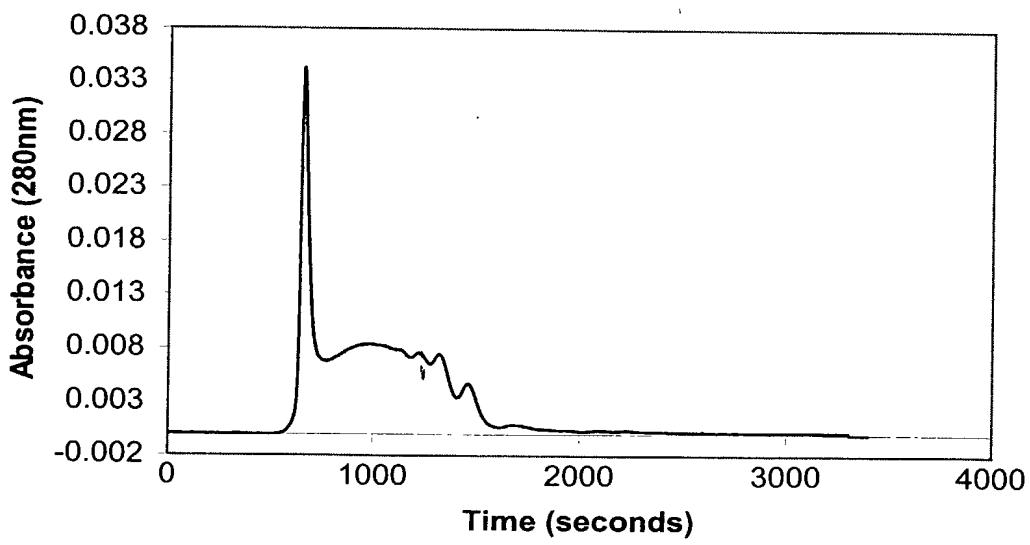
**Fig. 4**



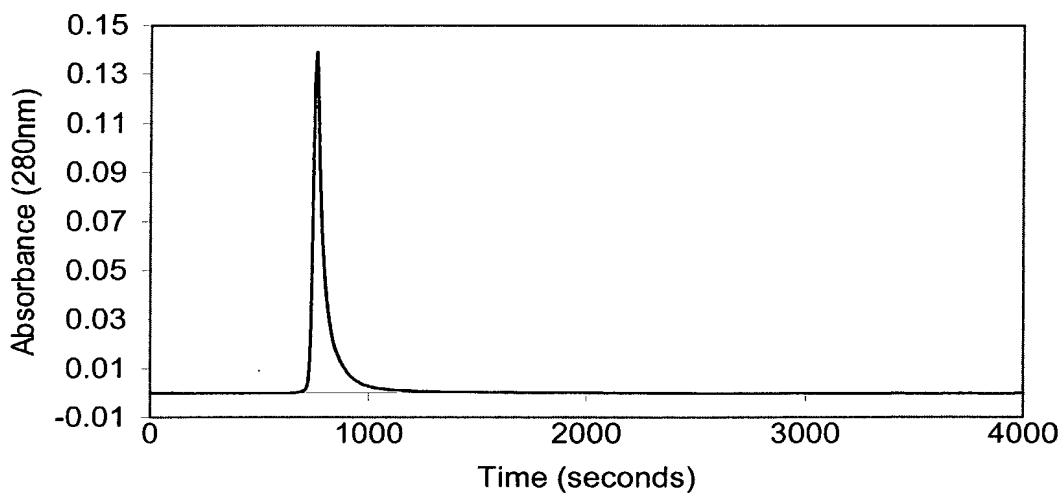
**Fig. 5**



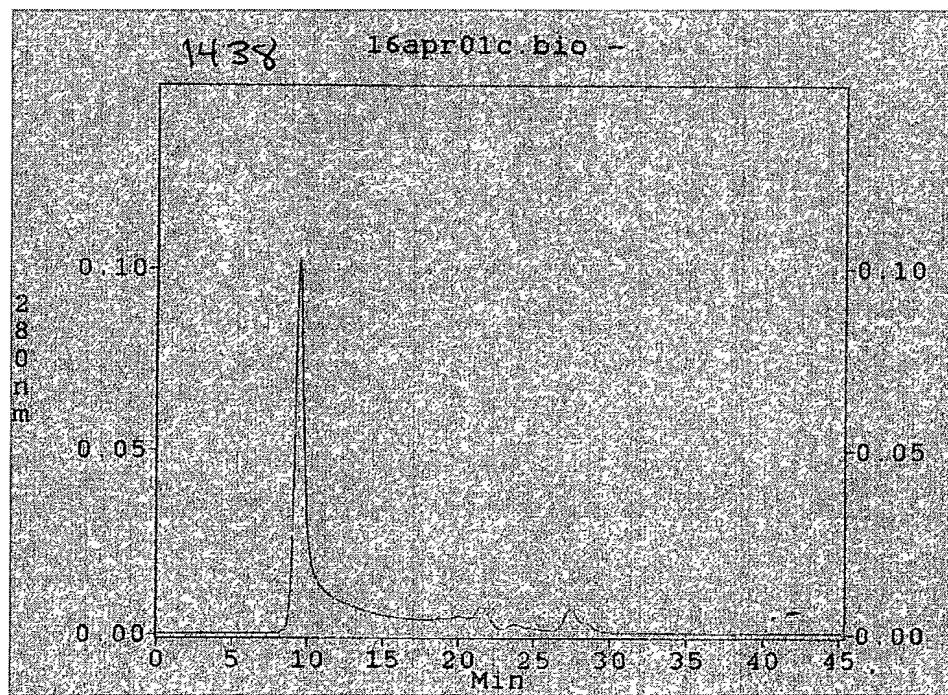
**Fig. 6**



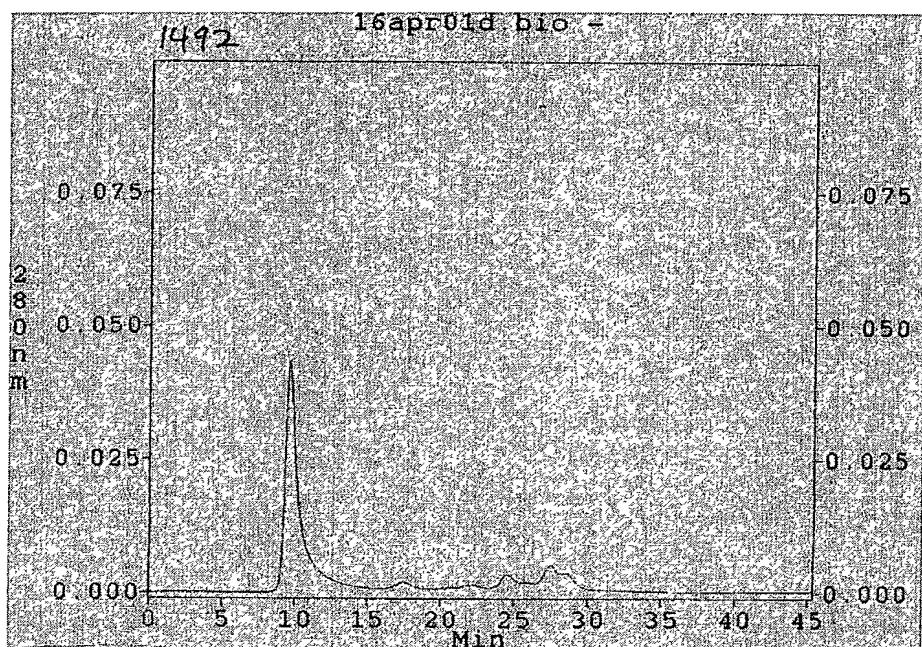
**Fig. 7**



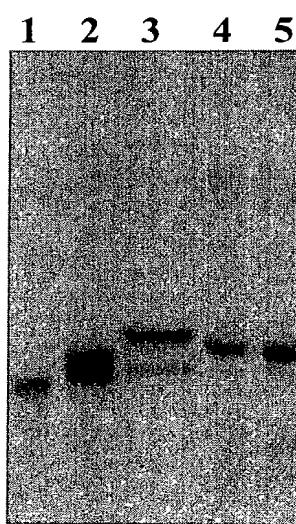
**Fig. 8**



**Fig. 9**



**Fig. 10**



**FIG. 11**

**Scheme 1**

